

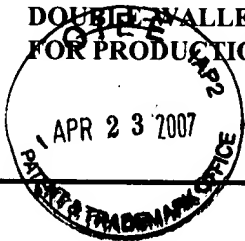
TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
14311

In Re Application Of: Alexander P. Moravsky, et al.

Application No.	Filing Date	Examiner	Customer No.	Group Art Unit	Confirmation No.
09/680,291	October 6, 2000	Ashok Patel	23389	2879	9193

Title: **DOUBLE-WALLED CARBON NANOTUBES AND METHODS
FOR PRODUCTION AND APPLICATION**



Address to:
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

37 CFR 1.97(b)

1. ☐ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. ☒ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

☐ the statement specified in 37 CFR 1.97(e);

OR

☒ the fee set forth in 37 CFR 1.17(p).

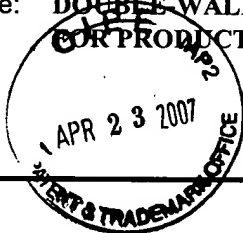
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Docket No.
14311

In Re Application of: **Alexander P. Moravsky, et al.**

Application No. 09/680,291	Filing Date October 6, 2000	Examiner Ashok Patel	Customer No. 23389	Group Art Unit 2879	Confirmation No. 9193
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Title: **DOUBLE WALLED CARBON NANOTUBES AND METHODS
FOR PRODUCTION AND APPLICATION**



Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☒ A check in the amount of **\$180.00** is attached.
- ☒ The Director is hereby authorized to charge and credit Deposit Account No. **19-1013/SSMP** as described below.
- ☐ Charge the amount of
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- ☒ Charge any additional fee required.
- ☐ Payment by credit card. Form PTO-2038 is attached.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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Mark J. Cohen
Signature

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April 19, 2007

(Date)

Mark J. Cohen
Signature of Person Mailing Correspondence

Mark J. Cohen

Typed or Printed Name of Person Mailing Certificate

Dated: April 19, 2007

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(516) 742-4343

cc: MJC:htj



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Alexander P. Moravsky, et al.

Examiner: Ashok Patel

Serial No: 09/680,291

Art Unit: 2879

Filed: October 6, 2000

Docket: 14311

For: DOUBLE-WALLED CARBON
NANOTUBES AND METHODS FOR
PRODUCTION AND APPLICATION

Dated: April 19, 2007

Confirmation No.: 9193

Mailstop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:


In accordance with 37 C.F.R. §§ 1.97 and 1.98, it is requested that the references, which are listed on the attached Form PTO-1449, be made of record in the above-identified case.

Applicants are submitting copies of the references.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on April 19, 2007.

Dated: April 19, 2007


Mark J. Cohen

04/24/2007 EEKUBAY1 00000013 09680291

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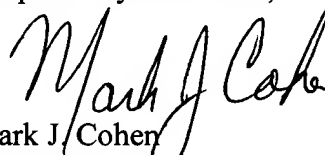
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Consideration of this Information Disclosure Statement is respectfully requested, since the art provided may be material to the examination of the present application as defined under 37 C.F.R. §1.56.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. § 1.97(c), a check in the amount of \$180.00 is enclosed.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Mark J. Cohen". The signature is written in a cursive, flowing style.

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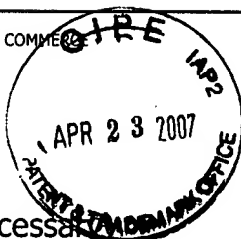
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(REV. 7-80) PATENT AND TRADEMARK OFFICE

U.S. DEPARTMENT OF COMMERCE

**LIST OF PRIOR ART
CITED BY APPLICANT**

(Use several sheets if necessary)

**Atty. Docket No.**
14311**Serial No.**
09/680,291**Applicant**
Alexander P. Moravsky et al.**Filing Date**
October 6, 2000**Group**
2879**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL*		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (if appropriate)
	1	6,517,800	02-2003	Cheng et al.			
	2	6,790,426	09-2004	Ohsaki, Takashi			
	3	6,692,717	02-2004	Smalley et al.			
	4	5,747,161	05/05/1998	Iijima			
	5	5,830,326	11/03/1998	Iijima			

		Foreign Document Number	Date	Country	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	6	Bacsa, R.R. et al. "High specific surface area carbon nanotubes from catalytic chemical vapor deposition process", <i>Chemical Physics Letters</i> 323: 566-571 (2000)
	7	Cassell et al., "Large Scale CVD Synthesis of Single-Walled Carbon Nanotubes", <i>J. Phys. Chem. B.</i> , 103 (31): 6484-6492 (1999)
	8	Cheng, H.M. et al., "Large-scale and low-cost synthesis of single-walled carbon nanotubes by the catalytic pyrolysis of hydrocarbons", <i>Applied Physics Letters</i> , 72(25): 3282-3284 (1998)
	9	Cheng, H.M. et al., "Bulk morphology and diameter distribution of single-walled carbon nanotubes synthesized by catalytic decomposition of hydrocarbons", <i>Chemical Physics Letters</i> 289: 602-610 (1998)
	10	Colomer, J.F., et al., "Synthesis of single-wall carbon nanotubes by catalytic decomposition of hydrocarbons", <i>Chem. Comm.</i> : 1343-1344 (1999)
	11	Flahaut, E., et al., "Synthesis of single-walled carbon nanotube-Co-MgO composite powders and extraction of the nanotubes", <i>The Royal Society of Chemistry</i> . 249-252 (2000)
	12	Dai, Hongjie et al., "Single-wall nanotubes produced by metal-catalyzed disproportionation of carbon monoxide, <i>Chemical Physics Letters</i> 260: 471-475 (1996)
	13	Hafner, Jason H. et al., "catalytic growth of single-wall carbon nanotubes from metal particles", <i>Chemical Physics Letters</i> 296: 195-202 (1998)
	14	Hernadi, K. et al., "Synthesis, Properties & Application - Catalytic Synthesis of Carbon Nanotubes", <i>Springer Series</i> , 33: 81-97 (1998)
	15	Hiraoka, Tatsuki, et al. "Selective synthesis of double-wall carbon nanotubes by CCVD of acetylene using zeolite supports," <i>Chemical Physics Letters</i> 382: 679-685 (2003)
	16	Hongo, H. et al., "chemical vapor deposition of single-wall carbon nanotubes on iron-film-coated sapphire substrates," <i>Chemical Physics Letters</i> 361: 349-354 (2002)

EXAMINER**DATE CONSIDERED**

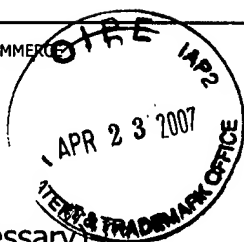
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Form PTO-1449
(REV. 7-80) PATENT AND TRADEMARK OFFICE

U.S. DEPARTMENT OF COMMERCE

LIST OF PRIOR ART CITED BY APPLICANT

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Atty. Docket No.
14311

Serial No.
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Applicant
Alexander P. Moravsky et al.

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U.S. PATENT DOCUMENTS

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Foreign Document Number	Date	Country	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

17	Hutchison, J.L. et al., "Double-walled carbon nanotubes fabricated by a hydrogen arc discharge method", <i>Carbon</i> 39: 761-770 (2001)
18	Kiang, C. et al., "Catalytic Synthesis of Single-Layer Carbon Nanotubes with a Wide Range of Diameters", <i>J. Phys. Chem.</i> 98: 6612-6618 (1994)
19	Kitiyanan, et al., "Controlled production of single-wall carbon nanotubes by catalytic decomposition of CO on bimetallic Co-Mo catalysts", <i>Chemical Physics Letters</i> 317: 497-503 (2000)
20	Li, Qingwen et al., "Pulsed CVD growth of single-walled carbon nanotubes", <i>Carbon</i> : 2873-2884 (2003)
21	Li, W.Z. et al., "Clean double-walled carbon nanotubes synthesized by CVD", <i>Chemical Physics Letters</i> 368: 299-306 (2003)
22	Liu, C. et al., "Semi-continuous synthesis of single-walled carbon nanotubes by a hydrogen arc discharge method", <i>Carbon</i> 37: 1865-1868 (1999)
23	Peigney, Alain et al., "A study of the Formation of Single- and Double- Walled Carbon Nanotubes by a CVD Method", <i>J. Phys. Chem. B.</i> 105: 9699-9710 (2001)
24	Resasco, W.E., et al., "A scalable process for production of single-walled carbon nanotubes (SWNTs) by catalytic disproportionation of CO on a solid catalyst", <i>Journal of Nanoparticle Research</i> , 4: 131-136 (2002)
25	Saito, Yahachi, et al., "Growth Conditions of Double-Walled Carbon Nanotubes in Arc Discharge", <i>J. Phys. Chem. B.</i> 107: 931-934 (2003)
26	Zhou Zhenping, et al., "Producing cleaner double-walled carbon nanotubes in a floating catalyst system", <i>Carbon</i> , 41: 2607-2611 (2003)
27	Zhou Zhenping, et al., "Controllable growth of double wall carbon nanotubes in a floating catalyst system", <i>Carbon</i> , 41: 337-342 (2003)
28	Zhu, Hongwei, et al., "A new method for synthesizing double-walled carbon nanotubes", <i>Carbon</i> 40: 2021-2040 (2002)

EXAMINER

DATE CONSIDERED

* **EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.